Professional LCDs

User Manual

ds55LX3

DynaScan

Version 1.01

The use of diagrams and illustrations in the manual for reference only, actual product may be different.

Product design and specifications are subject to change without notice

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Safety Precautions

CAUTION	
	Do not install display in a wet environment or place anything on the top of the display filled with liquid, such as vase or beverage.
	Do not install near flammable objects, such as gasoline or other volatile liquids.
	Do not install near any heat sources such as radiators or other heating devices.
	Do not install in a dusty environment.
	Do not damage the power cord or plug.
	Do not disassemble the screen to avoid electric shock.

WARNING	
	After extended use the heat sink behind the screen may be hot. Do not touch to avoid being burned.
	Do not touch the screen panel with sharp objects or extreme pressure to avoid damage to the panel.
	The display should be installed in well-ventilated place, do not install in a confined space.
	Do not drop or allow any object to fall on the screen.
	Do not touch the screen with wet hands to avoid electric shock.
	When cleaning, unplug the monitor. Use a soft, dry cloth to wipe the screen off. Do not use alcohol or other chemicals.
	If you smell smoke or hear a strange noise, immediately unplug the monitor and contact the vendor.
	Do not discard this product with general household waste. Please be sure to comply with the local waste regulations.
	Suitable for mounting on concrete or other non-combustible surface only.

IMAGE BURN-IN WARNING	
	When a stationary or fixed image is displayed for a long time on the screen, the image may be permanently imprinted on the screen. This phenomenon is known as image burn-in and is not covered by the manufacturer's warranty.
	In order to avoid burn in, avoid prolonged display of static or fixed images on the screen.

Important Safety Information

- Disassembling the LCD is strictly prohibited. Opening the cover may expose the user to shock or other hazards. Please contact DynaScan certified service professionals for all maintenance requirements.
- Do not allow any liquid to enter the LCD. Also avoid placing the LCD close to a water sources.
- Do not place heavy objects on the power cord. A damaged power cord might cause electric shock or fire.
- Do not bend, curl, or damage the power cord.
- The power cord must comply with local safety regulations.
- Do not damage or modify the prongs/pins and the ground contact on the power plug.
- Do no place the LCD on an unleveled surface or an unstable vehicle. The LCD could fall over and cause substantial damage.
- Do not cover the vents and/or the heat sink.
- Do not install the LCD beside radiators or other heat sources. The installation site should have sufficient ventilation so the heat generated by the LCD can be dissipated.
- Do not use the Signage in a hot, humid, dusty, or fumy environment.
- Handle the LCD with care. Save the packaging materials for the next transport.
- Please clean the backside of the LCD at least once a month for dust and other particles.

Unplug the LCD immediately and contact a DynaScan certified service professional as soon as possible when any of the following situations occurs:

- Damaged power cord or power plug.
- If liquid or foreign objects has entered the LCD.
- If the LCD has been exposed to rain or water.
- If the LCD has been dropped or the casing has become damaged.
- If you notice any structural damage such as cracks, or unnatural vibration.
- If the LCD cannot be operated following the steps outlined in this manual.
- If the LCD emits smoke or other odors, or generates strange noises.

Operating Suggestions

- Avoid displaying a stationary image for a long period of time in order to prevent image sticking.

Cleaning the Panel

- Use a soft, lint-free cloth to gently wipe dust off the screen panel.
- Do not use any hard material to wipe the panel.
- Do not poke the panel with your hand or any sharp object (such as a pen or a nail) or exert excessive pressure to the panel to prevent damage to the panel.
- Do not use any cleaning solution on the panel as it might cause discoloration.

Cleaning the Casing

- Unplug the power cord.
- Gently wipe the casing with a soft cloth.

Attention

- Do not use any of the following solutions to clean the casing as they might damage the paint and cause it to crack or peel: benzene solution, alkaline solution, alcohol-based cleaning solution, glass cleaner, wax, polisher, or detergent.

Declaration of Conformity

FCC Verification

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Declaration of the Manufacturer
We hereby certify that the Professional LCD DS55LX3 is in compliance with Low Voltage Directive 2006/95/EC Electromagnetic Compatibility Directive 2004 /108 /EC IEC60950-1:2005+A1(2nd Edition) EN60950-1:2006+A1:2010 EN55022:2006+A1:2007 Class A EN61000-3-2:2006+A1:2009+A2:2009 EN61000-3-3:2008 EN55024:1998+A1:2001+A2:2003 EN61000-4-2:2009 EN61000-4-3:2006+A1:2008+A2:2010 EN61000-4-4:2010 EN61000-4-5:2006 EN61000-4-6:2009 EN61000-4-8:2010 EN61000-4-11:2004 EN61000-4-11:2004 CE DynaScan Technology, Inc.

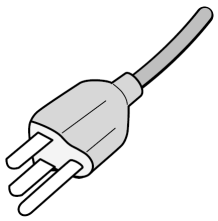
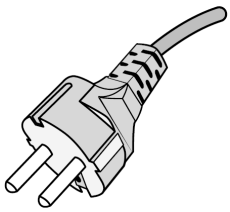
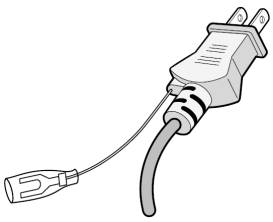
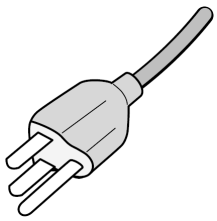
Getting Started

Contents

Confirm the accessories below are included with the display. If any item is missing, please contact your dealer. The color and shape of the accessories may vary by product.

- DS55LX3 Professional LCD
- Remote Control x1 pcs
- Batteries (1.5V / AAA) x2 pcs
- Quick Start Guide x1 pcs
- Power cable x1 pcs
- RS-232 cable x1 pcs
- DVI cable x1 pcs
- CD-ROM x1 pcs
- Ethernet crossover cable x1 pcs

Attention: Please use the following table to check whether the included power cord is suitable for your region. If the power cord does not match your region, please contact your local supplier. Please use matching AC socket in order to meet local safety regulations.

Plug Type	North America	European Continental	Japanese	Taiwanese
Plug Shape				
Region	U.S.A. / Canada	EU (Except U.K.)	Japan	Taiwan
Voltage	120V	230V	100V	110V

Installing and Replacing Remote Control Batteries

1. Open the battery compartment cover.
2. Insert 2 new AAA batteries.
3. Close the battery compartment cover.

Warning:

- Incorrect usage of batteries may cause leakage or explosion.
- Pay attention to the polarity when installing batteries.
- Do not use batteries from different brands together. Do not mix new and used batteries. Doing so may shorten the battery life or cause leakage.
- Remove the batteries or replace them with a new pair when the batteries are depleted in order to prevent battery leak in the battery compartment.
- Do not touch the leaked substance from the batteries in case of a battery leak. Doing so may damage human skin.

Note: if you plan on not using the remote control for a long period of time, we recommend removing the batteries from the remote control.

Installation

The LCD must be properly installed using a wall mount. Incorrect installation may cause injury or damage the equipment. Product warranty does not cover damages caused by improper installation and DynaScan shall not be held responsible in such incident.

Mounting

- Hanging the Professional LCD from the ceiling or mounting it on the wall is the responsibility of the user. Not all ceilings or walls provide enough strength to support the LCD. The LCD may drop and cause serious injury if it is hanging from the ceiling with insufficient support or is mounted on a slanted wall. Product warranty does not cover improper installation, modification, or damages caused by natural disasters. DynaScan recommends hiring certified professionals to evaluate the installation site and mounting operation.
- Do not to cover the vent and/or the heat sink in order to ensure proper heat dissipation.
- Refer to the installation guide provided by manufacturer of the mount for proper installation.

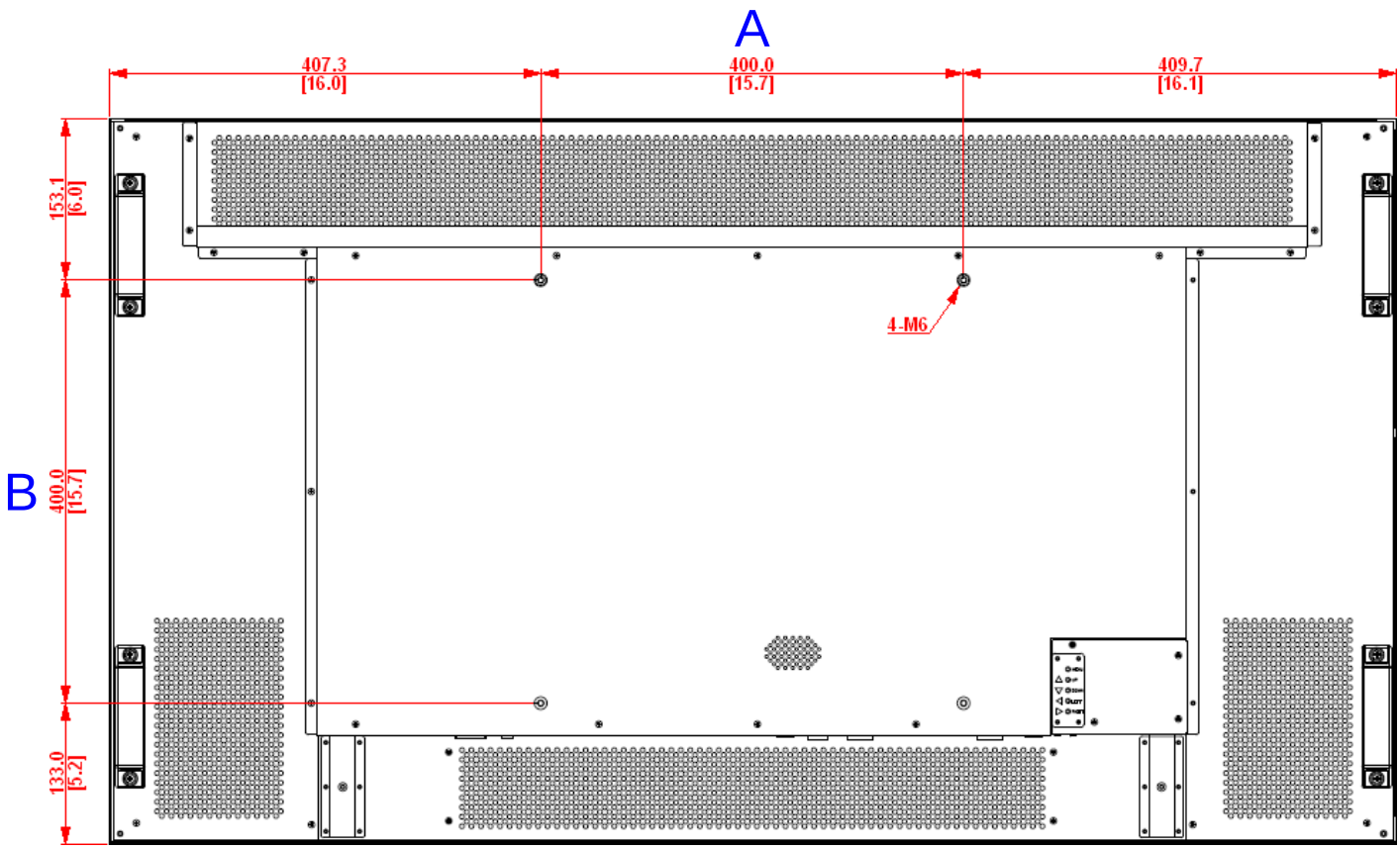
When mounting on a wall or hanging from a ceiling

- A wall mount is not included in the accessory. Please purchase a VESA Standard wall mount to secure the LCD. DynaScan is not responsible for damages caused by using non-standard wall mounts.
- Verify that the mounting location can support the weight of the LCD before installation.
- The installation angle must be within 15 degrees of the vertical axis.
- Do not install the wall mount while the power is turned on as it may cause serious injury from electrical shock.

Model Number	VESA (mm)		Screw specification	Screw Length	Number
DS55LX3	(A * B)	400 * 400	M6	Greater than 10mm (not including wall mount thickness)	4

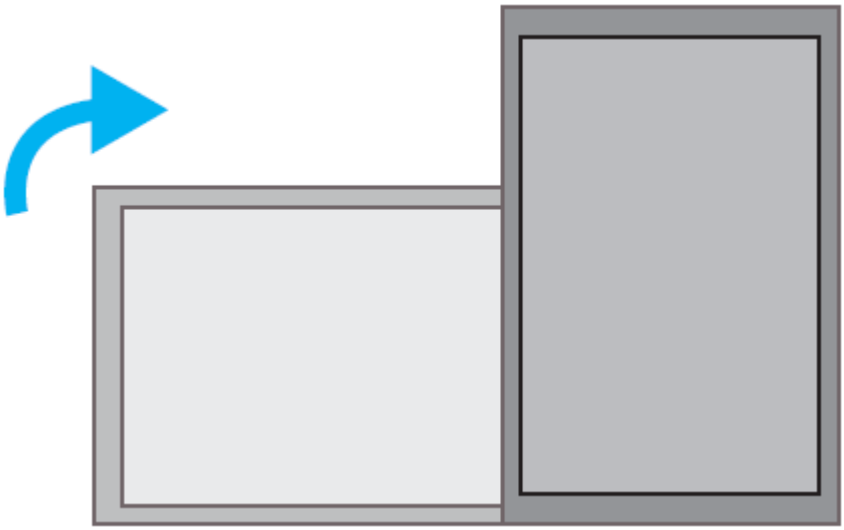
DS55LX3

Unit: mm / [inch]



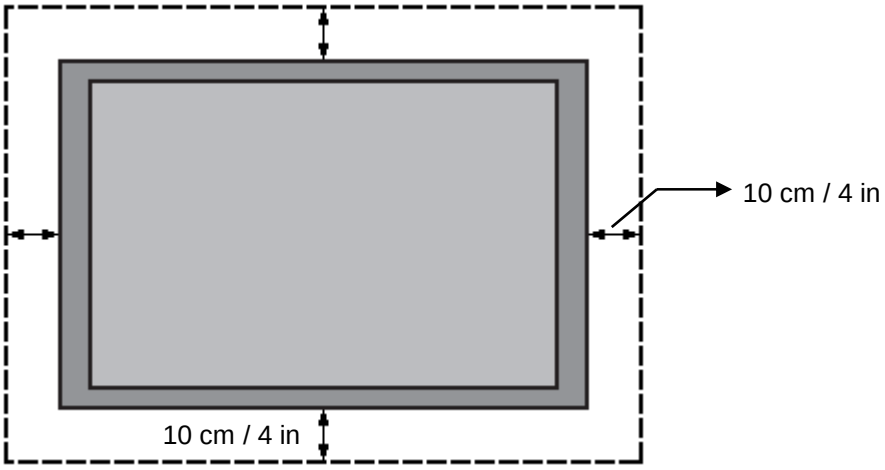
Orientation

- When used in the portrait orientation, the LCD should be rotated clockwise such that the left edge becomes the top edge.



Installation Location

- The ceiling or the wall must have enough strength to support the LCD and its accessories.
- Do not install in a location with strong vibrations or is dusty.
- Do not install near the building's main electric panel.
- Do not install at a location where the LCD can be easily removed by the general public.
- When installed in an alcove, leave at least 10cm (4") of space around the LCD to ensure proper ventilation.



When hanging from a ceiling

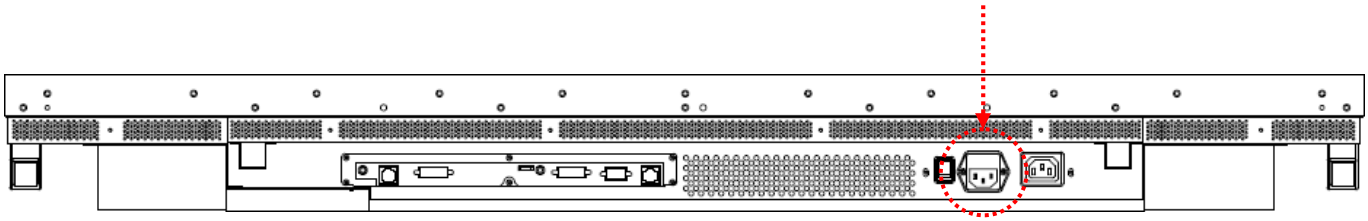
- Ensure that the ceiling is strong enough to support the LCD and it accessories. Also consider the effects of earthquakes, unexpected vibrations, and other external forces when evaluating the ceiling strength.
- The LCD should be secured to the building's structural frame, such as a beam, and not to materials such as light steel frame or interior decoration.
- Do not use wood screws or dry wall anchors for installation.

Maintenance

- Inspect the fasteners regularly for signs of loosening or deformation. Please perform appropriate corrective measures when a problem is identified. Neglecting the problem may worsen the situation.
- Increase the inspection frequency on areas where previous maintenance had occurred to ensure the problems do not occur again.

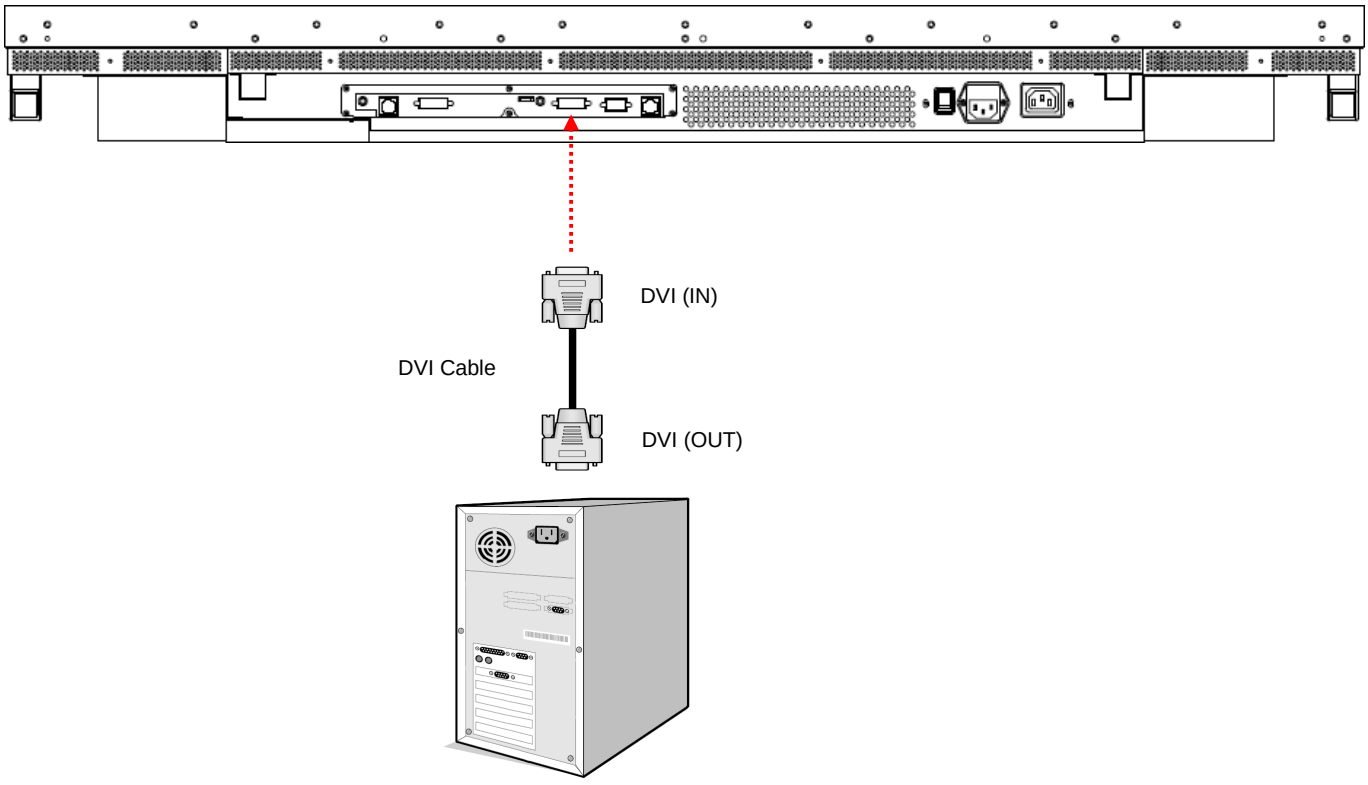
Connecting To a Power Source

Using the power cable provided, insert the female connector into the back of the display as shown in the diagram below. Connect the male end of the power cable to a 100-240 volt, 50 / 60Hz AC power outlet. Insert the plug completely into the socket. A loose power connection may cause degradation to the image quality.



Connecting an External Video Source

Turn OFF the power to both the LCD and the external video device. Using the DVI cable provided, insert one end into the DVI-IN on the back of the display as shown in the diagram below. Connect the other end of the DVI cable to the DVI output of the video source. Refer to your video device's product manual for additional information



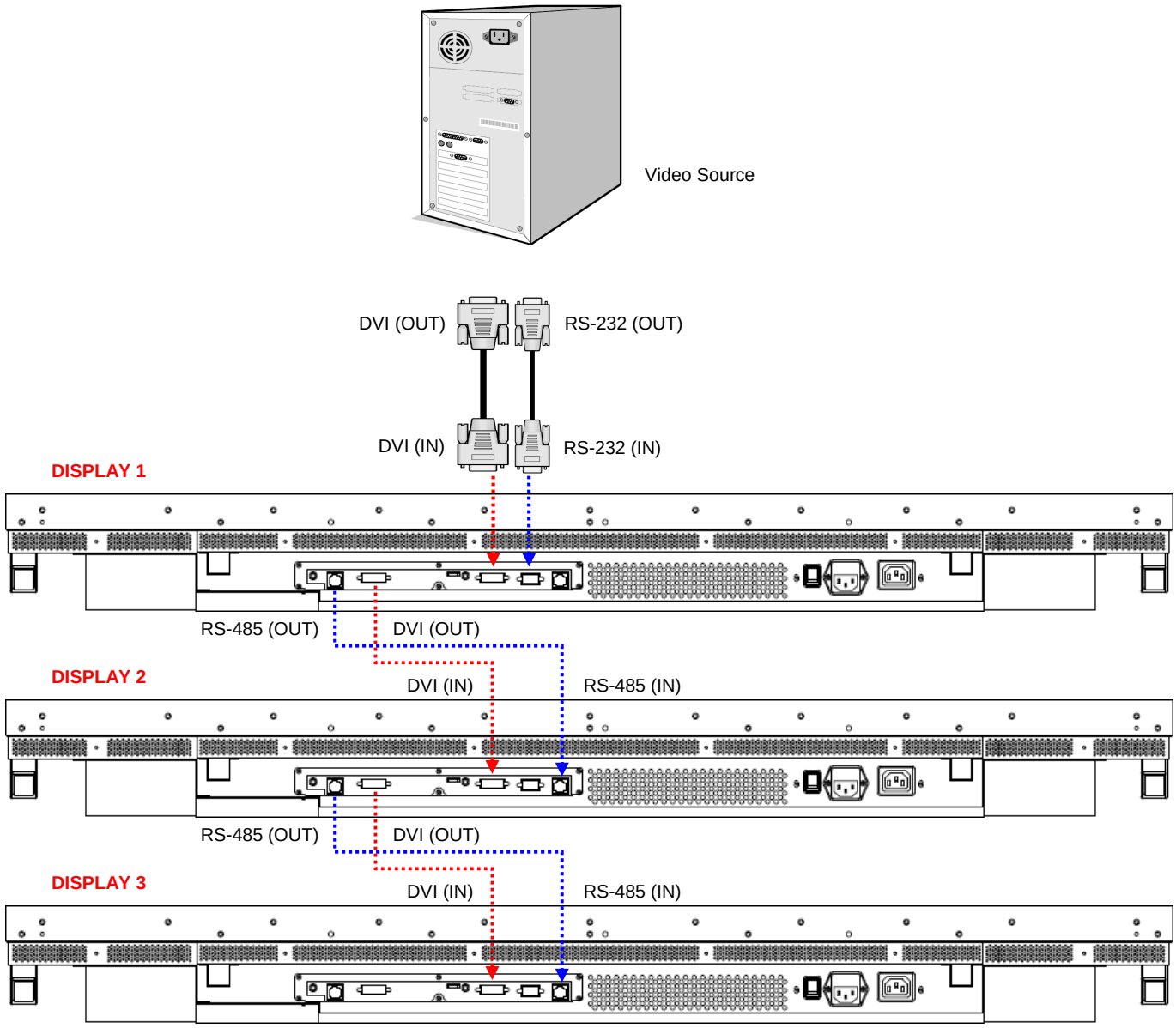
Connecting Multiple Displays for Video Wall Applications

To daisy chain multiple displays for a video wall application, connect a video source to the 1st display into the chain with the supplied DVI cable and RS-232 cable. Connect the DVI-OUT of the 1st display to the DVI-IN of the 2nd display. Using the Ethernet crossover cable provided, connect the RS-485 OUT of the 1st display to the RS-485 IN of the 2nd display. Repeat connection for remaining displays. Use the OSD Menu or Display Manager software to configure the size of the video wall and the position of each display.

Note: The maximum number of DS55LX3's in a Video Wall is 36 (6 × 6).

Note: The DynaScan "Display Manager" application is required to be installed on the PC in order to use the External Control feature.

Note: The Daisy Chain Setting (video wall function) only supports a resolution of 1920 x 1080 (1080p).

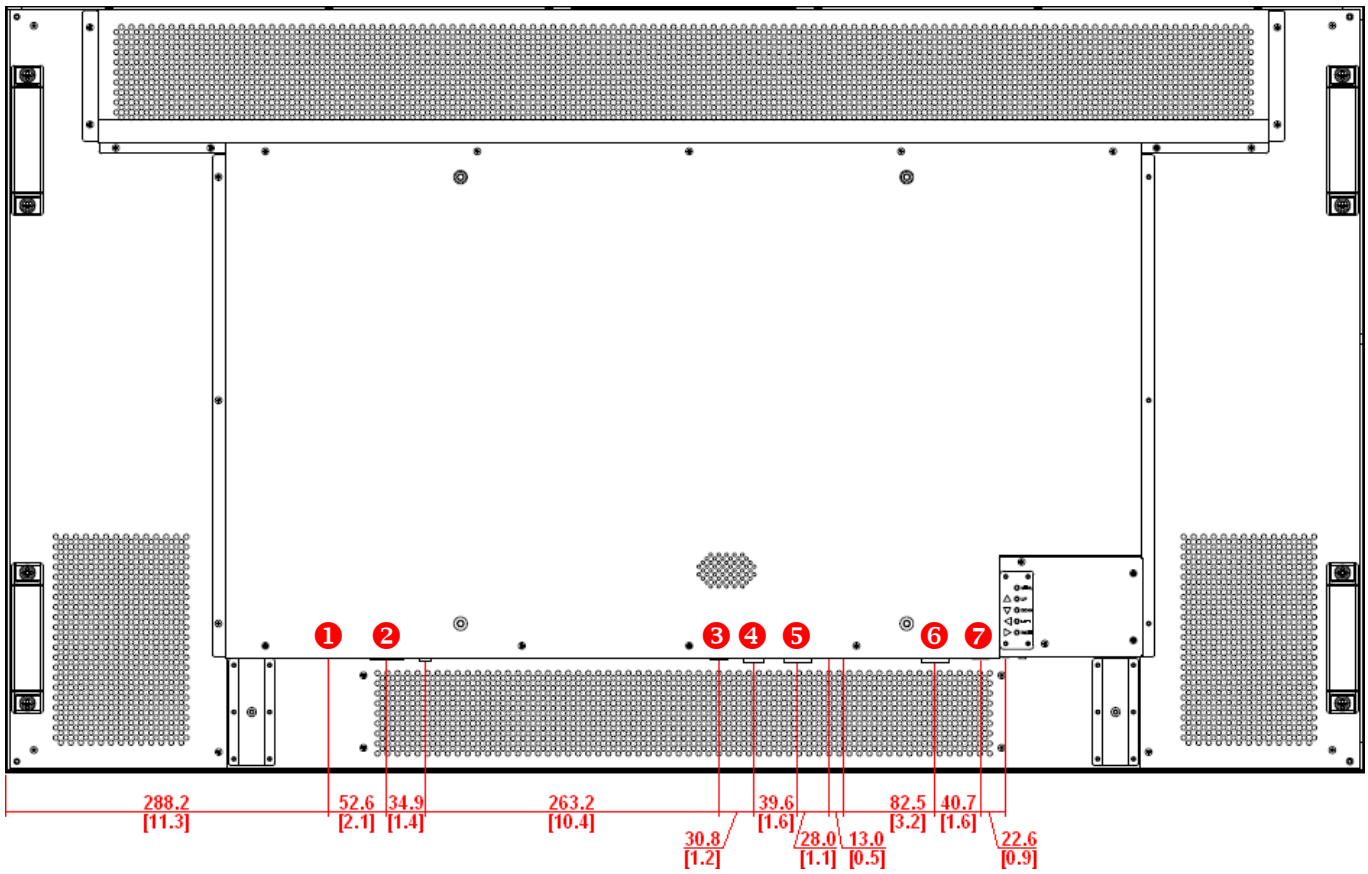


Connector Positions

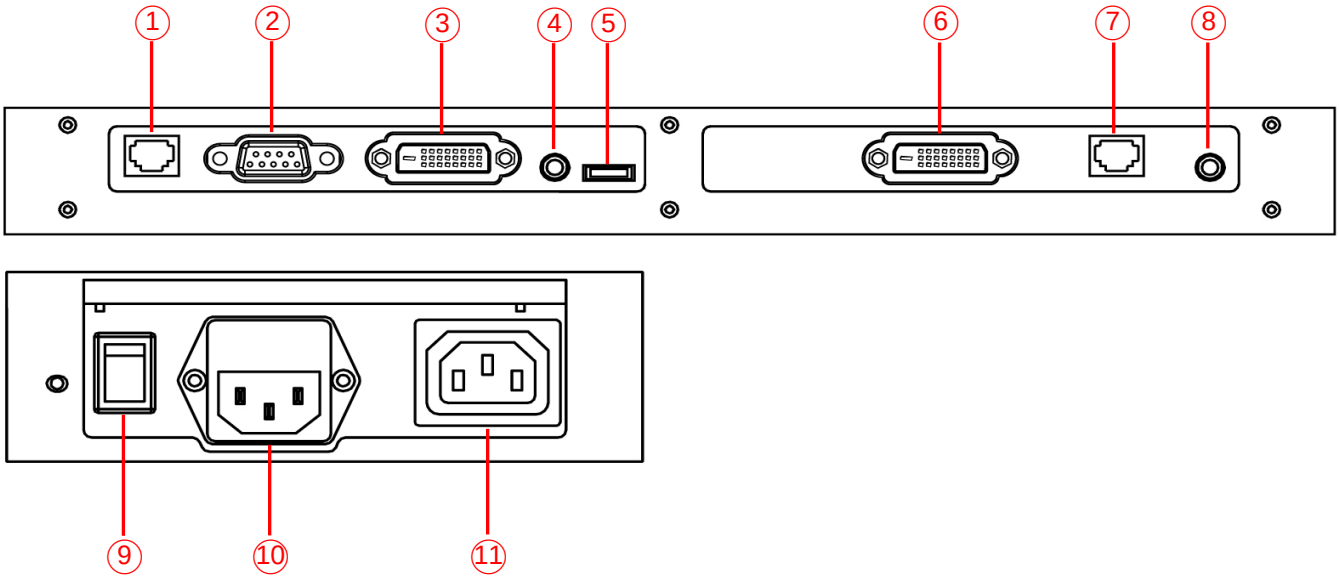
❶	❷	❸	❹	❺	❻	❼
AC (OUT)	AC (IN)	RS-485 (IN)	RS-232 (IN)	DVI (IN)	DVI (OUT)	RS-485 (OUT)

Unit: mm / [inch]

DS55LX3



Input / Output Terminals



① **RS-485 (IN):** RS485 control function for the daisy chain application.

② **RS-232 (IN):** RS232C network input connection for the use of remote control from computer.

③ **DVI (IN):** Connect the DVI-D output of a PC, or the HDMI output of an AV device by using a DVI-HDMI cable.

④ **Audio (IN):** Connect audio input from external AV device.

⑤ **Extension Connector:** Extension Connector for optional IR Extension sensor kit (ESK201).

⑥ **DVI (OUT):** Output the signal from the DVI IN.

⑦ **RS-485 (OUT):** RS485 control function for the daisy chain application.

⑧ **Audio (OUT):** Connect the audio signal output from Audio IN jack to an external AV device.

⑨ **Power Switch:** Press to switch the main power on/off.

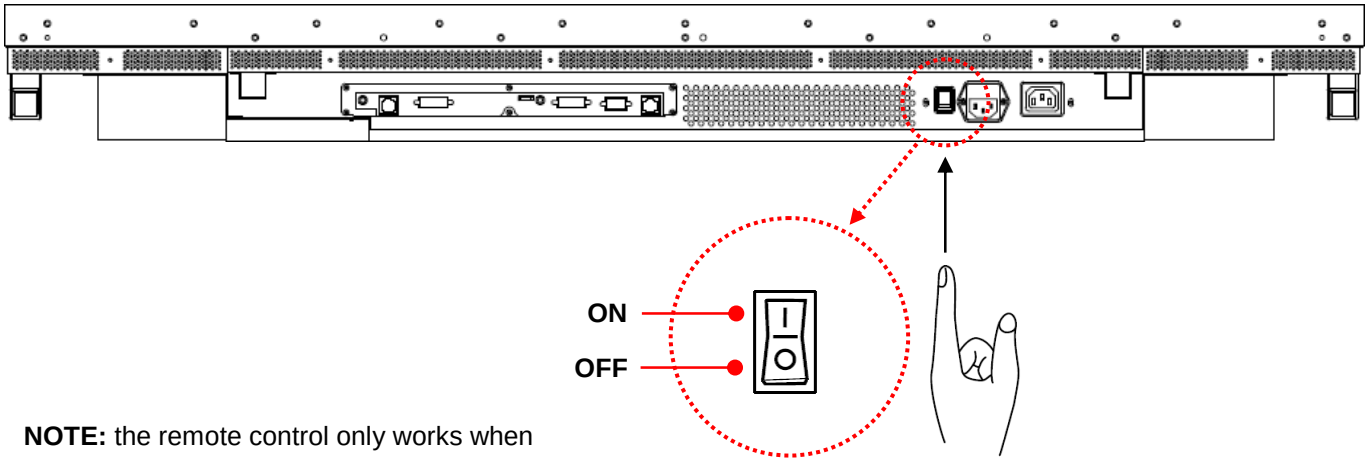
⑩ **AC (IN):** Connect the supplied power cord to the wall outlet.

⑪ **AC (OUT):** AC outlet 100~240V up to 100 Watt.

Operating Instructions

Powering On/Off the Display

To turn on/off the display, press the power switch on the back of the display as shown in the diagram below.



NOTE: the remote control only works when the main switch is in the ON position.

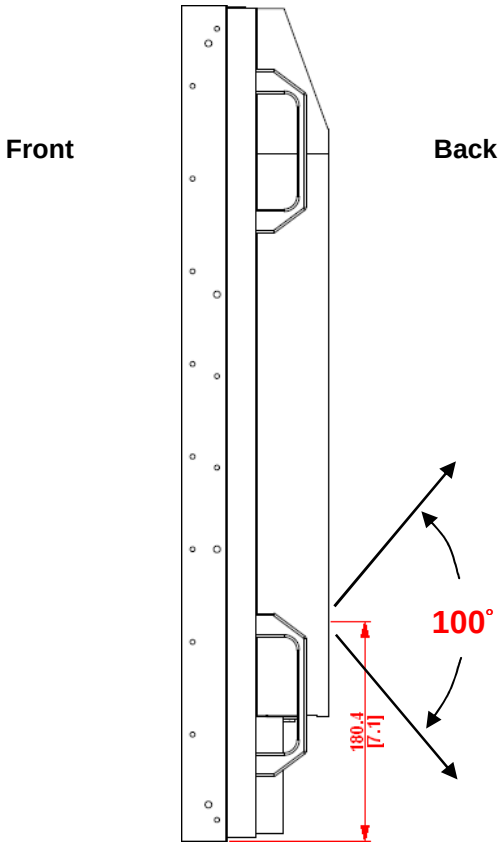
Using the Remote Control

When using the remote control, aim the remote at the IR receiver on the display. The IR receiver on the DS55LX3 model is at the back of the display with a receiving angle of 100 degrees. The IR receiver configuration of the model is shown in the figure below.

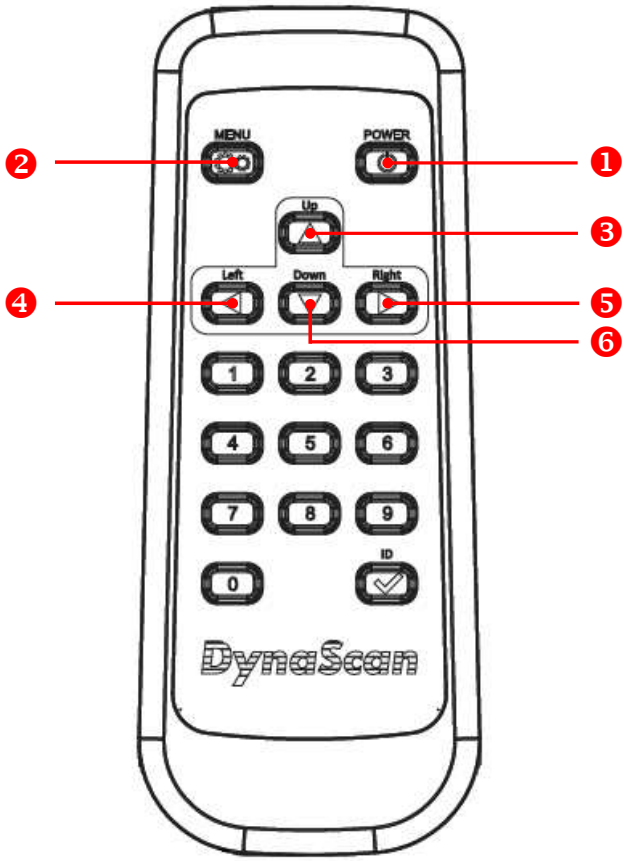
The operating range of the remote control is 2.5 meters (8 feet).

Ambient light may affect the performance of the remote control. Avoid fluorescent or neon lights in the vicinity.

DS55LX3



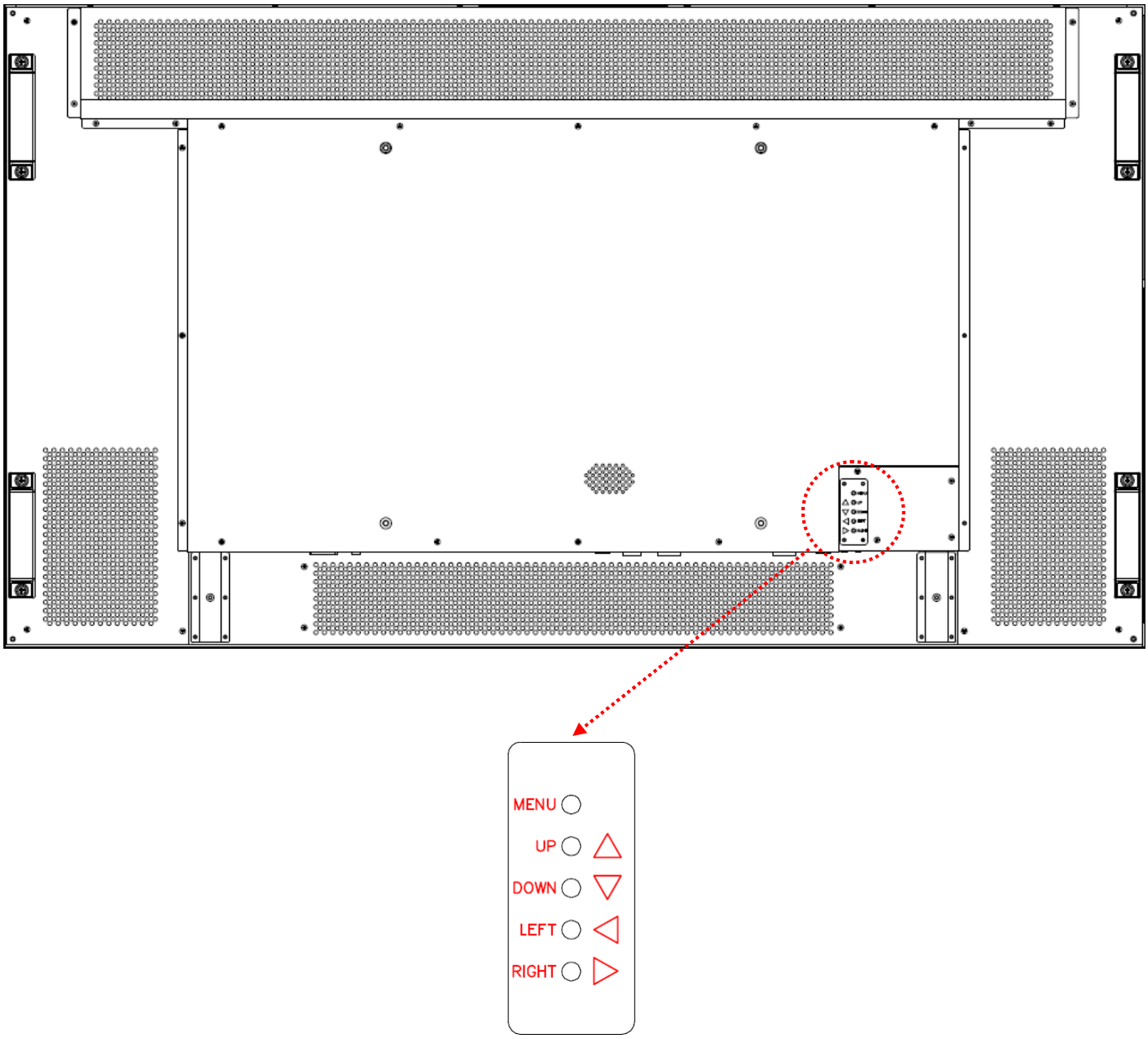
Using the Remote Control (cont.)



Color and shape may vary by model.

ITEM		DESCRIPTION
❶	POWER	Power On / Off
❷	MENU	OSD On / Off
❸	UP	Move the cursor up or change the setting of the selected item
❹	LEFT	Exit the current selection
❺	RIGHT	Select the highlighted item
❻	DOWN	Move the cursor down or change the setting of the selected item

Using the Rear Panel Controls



ITEM	DESCRIPTION
MENU	OSD On / Off
UP	Move the cursor up or change the setting of the selected item
DOWN	Move the cursor down or change the setting of the selected item
LEFT	Exit the current selection
RIGHT	Select the highlighted item

Navigating the On Screen Display (OSD) Menu

Press the MENU button on either the real panel control or remote control to display the OSD. Use the navigation arrows to select and adjust menu items.

ITEM	DEFAULT	DESCRIPTION
DISPLAY MODE	LAN.	Change the orientation of the Menu. The Menu can be displayed in either LANDSCAPE or PORTRAIT mode.
AUTO BRIGHTNESS	OFF	Turn On / Off auto brightness adjustment. **Note**: With AUTO BRIGHTNESS on, the display brightness adjusts according to the ambient light. When ambient light is bright, the screen will adjust to the set HIGH LEVEL brightness value; when ambient light is dark, the screen will adjust to the set LOW LEVEL brightness value. With AUTO BRIGHTNESS off, screen brightness will remain at HIGH LEVEL set brightness value.
HIGH LEVEL	99	Adjusts the highest brightness level. Range 0 – 99.
LOW LEVEL	50	Adjusts the lowest brightness level. Range 0 – 99.
COLOR TEMPERATURE	6500K	Color temperature select (5500K 6500K 9300K and USER MODE).
R	99	Adjust the red light level. Range 0 – 99.
G	99	Adjust the green light level. Range 0 – 99.
B	99	Adjust the blue light level. Range 0 – 99.
CONTRAST	32	Adjust the contrast level. Range 0 – 99.
SCREEN SAVER	OFF	Turn on / off image burn-in protection.
INTERVAL	5 min	Sets image burn-in protection interval.
CURRENT TIME	00：00	Set the clock. **Note**: The internal clock will continue to function when the power is turned off.
TIMER	OFF	Turn on / off automatic power schedule function.
POWER ON TIME	00：00	Set turn-on time.
POWER OFF TIME	00：00	Set turn-off time.
DAISY CHAIN SETTING		Set video wall function.
NUMBER OF ROWS	1	Set number of rows in video wall. **Note**: The maximum number of rows in a daisy chain is 6.
NUMBER OF COLUMNS	1	Set number of columns in video wall. **Note**: The maximum number of columns in a daisy chain is 6.
ROW POSITION	1	Vertical position in video wall.

COLUMN POSITION	1	Horizontal position in video wall.
LOCAL DIMMING	MODE 1	Adjusts the contrast. MODE 1 is the highest contras. OFF is the lowest contrast.
GAMMA	NATIVE	Adjusts the Gamma value.
IR CONTROL	ON	Enables / disables the ability to use the remote to control the Menu. **Note**: When disabled, the remote control function can be enabled again from the control panel on the Signage or through the DynaScan “Display Manager” application.
POWER SAVE MODE		When in Power Save Mode, RS-232 controls do not function. Only [Main Power Switch] on the display or [Power Button] on the remote controller can wake up the display.
RESET TO FACTORY DEFAULT	OFF	Restores all settings to default. **Note**: Does not modify CURRENT TIME, POWER ON TIME, POWER OFF TIME.
SN: xxxxxxxxxxxxx		The display’s serial number.
VER: 0.0.01 1920x1080		The F/W version ; Input resolution.

Some functions may not be available for all models.

*Adjusted value: Each R/G/B value for this product has been individually adjusted in during production to a preset color temperature of 6500K.

Specifications

MODEL		DS55LX3
PANEL	LCD Panel Size	54.64 inches
	Native Resolution	1920 x 1080
	Brightness	1500 cd/m² (Typ.)
	Contrast Ratio	3,000:1 (Static) 1,000,000:1 (Dynamic)
	Response Time	10 ms (Typ.)
	Viewing Angle	178° / 178°
	Life Time	50,000 hrs (Typ.)
	Panel Surface	AG Haze 10%, 3H
POWER	Power Supply	Internal
	Rated Voltage	100 ~ 240V, 50 / 60Hz
	Power On Mode	Max. 310W
	Standby Mode	< 1W
	AC Out	< 100W
MECHANICAL SPECS	Bezel Width (T/B/L/R)	3.40/1.90/3.45/1.85 mm
	Cabinet Color	Black
	Monitor Dimension (LxHxD, w/o Stand)	1215.2 x 686 x 121 mm
	Monitor Weight (set / package)	38 kg / 44 kg
	VESA Mounting (Dimension)	8 Holes (400x400 mm, 800x400 mm)
USER INTERFACE	OSD Language	English
ENVIRONMENT	Operation Temperature	0°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C
	Humidity	10%~80% RH Non-Condensing
I/O Ports	DVI-D	IN *1 / OUT *1
	RS-232	IN *1
	RS-485 (RJ-45)	IN *1 / OUT *1
	Audio	IN *1 / OUT *1

Design and specifications are subject to change without notice.

DVI-D out only supported resolution is 1920 x 1080 (1080p).

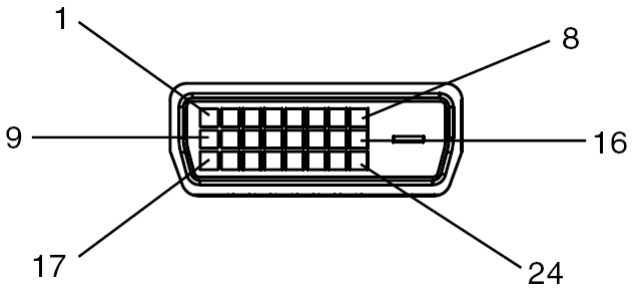
Input Mode

Active Resolution		Refresh Rate	Pixel Rate	Aspect Ratio
H Pixels	V Lines			
640	480	60 Hz	25.175 MHz	4:3
720	480	50 Hz	27 MHz	4:3
720	480	59.94 Hz	27 MHz	4:3
800	600	60 Hz	40 MHz	4:3
1024	768	60 Hz	65 MHz	4:3
1280	720	50 Hz	74.25 MHz	16:9
		60 Hz		
1280	768	60 Hz	79.5 MHz	5:3
1360	768	60 Hz	85.5 MHz	16:9
1920	1080	60 Hz	148.5 MHz	16:9
1920	1080	50 Hz	148.5 MHz	16:9
		60 Hz		

Pin Assignments

Digital RGB Output (DVI-D): DVI

PIN ASSIGNMENT OF DVI CONNECTOR					
01	TX2-	09	TX1-	17	TX0-
02	TX2+	10	TX1+	18	TX0+
03	Shield (TX2 / TX4)	11	Shield (TX1 / TX3)	19	Shield (TX0 / TX5)
04	NC	12	NC	20	NC
05	NC	13	NC	21	NC
06	DDC-Serial Clock	14	+5V power	22	Shield (TXC)
07	DDC-Serial Data	15	Ground	23	TXC+
08	NC	16	Hot plug detect	24	TXC-

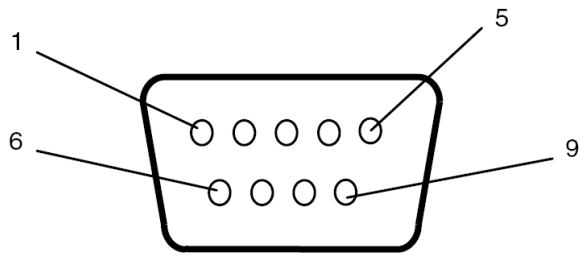


Digital RGB Input (DVI-D): DVI

PIN ASSIGNMENT OF DVI CONNECTOR					
01	RX2-	09	RX1-	17	RX0-
02	RX2+	10	RX1+	18	RX0+
03	Shield (RX2 / RX4)	11	Shield (RX1 / RX3)	19	Shield (RX0 / RX5)
04	NC	12	NC	20	NC
05	NC	13	NC	21	NC
06	DDC-Serial Clock	14	+5V power	22	Shield (RXC)
07	DDC-Serial Data	15	Ground	23	RXC+
08	NC	16	Hot plug detect	24	RXC-

RS-232 Output

PIN No.	NAME
01	connected to 7&8
02	RXD
03	TXD
04	connected to 6
05	GND
06	connected to 4
07	connected to 1&8
08	connected to 1&7
09	NC



RS-232 Input

PIN No.	NAME
01	connected to 7&8
02	TXD
03	RXD
04	connected to 6
05	GND
06	connected to 4
07	connected to 1&8
08	connected to 1&7
09	NC

Troubleshooting

ISSUE	RECOMMENDED SOLUTION
No image is displayed.	• Check whether the DVI in cable is completely plugged in. • Check whether the main switch is in the ON position, and the power cord is completely plugged in. • Check whether the image source's resolution is set to 1920 × 1080 (1080p). • Check whether the DVI cable is damaged or bent excessively.
Nothing happens when switching the main switch on.	• Unplug the power cord from the socket and plug it back in after a few seconds to reset the display. **Note:** DS65LT4 does not have a power off indicator. **Note:** Unplugging the power cord will not change the settings.
Image is unstable.	• Check whether the DVI in cable is completely plugged in.
The remote control does not work.	• Check whether there are batteries in the remote control. • Check the batteries for freshness, polarity, etc. • Check whether the remote is in the operation range. • Bright light may interfere with the remote control. Please avoid using the remote control near special fluorescent lights or neon lights.
Auto on/off does not work or does not function properly.	• Check whether the TIMER setting in the menu is set to "OFF". • Check whether the "Power On Time" and "Power Off Time" settings are set correctly.
Cannot control the display remotely via RS-232.	• Check whether the RS-232 cable is connected properly. • Check whether the Ethernet crossover cable is connected properly.

If you are still having trouble with your DynaScan DS² Professional LCD, contact your dealer or DynaScan directly for more assistance.

Recycling and Energy Information

DynaScan is firmly committed to its environmental protection efforts and we believe that reducing our products' impact on the environment is of the utmost importance. We are dedicated to meet the latest environmental protection regulations.

Energy usage

Mode	Energy consumption
Normal	Max. 310 W
Standby	< 1 W

Disposal

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new one, the retailer is legally obligated to take back your old appliances for disposal at least for free of charge.

Material Contents Declaration

Part Name	Hazardous Substances					
	Lead	Mercury	Cadmium	Hexavalent Chromium	Polybrominated Biphenyls	Polybromodiphenyl Ethers
	Pb	Hg	Cd	Cr^{6+}	PBB	PBDE
PCBA	O	O	O	O	O	O
CHASSIS	O	O	O	O	O	O
ACCESSORY	O	O	O	O	O	O
PACKAGE	O	O	O	O	O	O

"O" indicates that the level of the specified chemical substance is less than the threshold level specified in the standards of SJ/T-11363-2006 and EU 2005/618/EC.

"×" indicates that the level of the specified chemical substance exceeds the threshold level specified in the standards of SJ/T-11363-2006 and EU 2005/618/EC.

Limited Warranty

WARRANTY COVERAGE

DynaScan's warranty obligations are limited to the terms set forth below: DynaScan warrants its product against defects in materials and workmanship for a period of TWO (2) YEARS from the date of initial installation. If a defect exists, DynaScan will repair the product at no charge. A replacement part assumes the remaining warranty of the original product or NINETY (90) DAYS from the date of replacement or repair, whichever provides longer coverage for you. When a part is exchanged, any replacement item becomes your property and the replaced item becomes DynaScan's property.

OBTAINING WARRANTY SERVICE

You must contact DynaScan, identify the unit by model number, serial number and date of purchase, and furnish a brief description of the problem.

EXCLUSIONS AND LIMITATIONS

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